

NASA SP-7011 (98)



SPECIAL NOTICE INSIDE

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**A CUMULATIVE INDEX
TO THE 1971 ISSUES OF
A CONTINUING BIBLIOGRAPHY ON**

AEROSPACE MEDICINE AND BIOLOGY

JANUARY 1972

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ACCESSION NUMBER RANGES

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SPECIAL NOTICE

The abstract sections of the monthly supplements of *Aerospace Medicine and Biology* can be bound separately. Individual abstracts can be located readily by means of the page numbers given at each entry, e.g., p0430 N71-26914. To assist the user in binding Supplements SP-7011 (86) through SP-7011 (97), a title page is included in the back of this Cumulative Index.

NASA SP-7011 (98)

**A CUMULATIVE INDEX
TO
A CONTINUING BIBLIOGRAPHY ON

AEROSPACE MEDICINE
AND BIOLOGY**

**This Cumulative Index supersedes the indexes
contained in supplements [SP-7011 (86)
through SP-7011 (97)] published by NASA
during 1971.**



Scientific and Technical Information Office

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

WASHINGTON, D.C. JANUARY 1972

Introduction

WHAT THIS CUMULATIVE INDEX IS

This publication is a cumulative index to the abstracts contained in NASA SP-7011 (86) through NASA SP-7011 (97) of *Aerospace Medicine and Biology: A Continuing Bibliography*. NASA SP-7011, by means of supplements, serves as a current abstracting and announcement journal for references on bioscience and biotechnology. It has been compiled through the cooperative efforts of the American Institute of Aeronautics and Astronautics (AIAA), and the National Aeronautics and Space Administration (NASA). Entries prepared by the two contributing organizations are identified as follows:

1. NASA entries by their STAR accession numbers (N71-10000 series);
2. AIAA entries by their IAA accession numbers (A71-10000 series).

HOW THIS CUMULATIVE INDEX IS ORGANIZED

This Cumulative Index includes a subject index, a personal author index, and a corporate source index.

HOW TO USE THE SUBJECT INDEX

Two types of cross-references appear in the subject index:

1. Use (U) references indicate that the subject term is not "postable," i.e., not a valid term, and that the following term or terms are used instead. For example:

DOSE

U DOSAGE

AIRLINERS

U COMMERCIAL AIRCRAFT

U PASSENGER AIRCRAFT

2. Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

FATIGUE (BIOLOGY)

NT AUDITORY FATIGUE

NT FLIGHT FATIGUE

NT MUSCULAR FATIGUE

In addition, a searcher may use the notations of content in the index to narrow further his quest for particular items. This is because subject terms can readily include more than one class of document. For example:

BIOLOGICAL EFFECT

Vibratory force effect upon
biological systems, particularly
human organism.

Biological effect of cosmic and
solar radiations on human
body at high altitudes.

illustrates a case where two references on different topics are listed under the same subject term.

HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors used in the abstract-section citations in the individual Supplements appear in the index. Differences in transliteration schemes may require multiple searching of the index for variants of an author's name. For example:

EMELIANOV, M.D.
and
YEMEL'YANOV, M.D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract-section citations in the individual Supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

NEW MEXICO STATE UNIV., LAS CRUCES. DEPT. OF BIOLOGY
(Corporate source at citation)
NEW MEXICO STATE UNIV., LAS CRUCES.
(Corporate source index entry)

IDENTIFICATION OF DESIRED SUPPLEMENT

The abstract and descriptive cataloging for any accession number selected from the indexes may be found in the appropriate Supplement. The *Accession Number Ranges* table showing the ranges of accession numbers (N71-10000 and A71-10000) contained in each Supplement appears on the inside front cover of this index. Once the range of accession numbers containing the selected accession number is found in this table, the desired Supplement number is given in the left-hand column of the table. For example:

N71-21150 was announced in Supplement 90.

AVAILABILITY OF DOCUMENTS

Information concerning the availability of documents announced in *Aerospace Medicine and Biology* supplements is found in the Introduction to the most currently issued monthly supplement.

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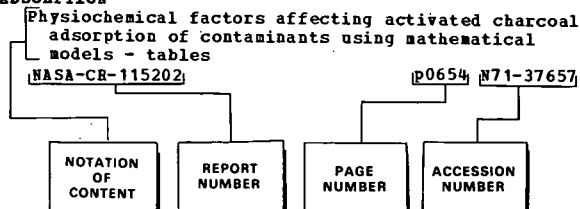
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AEROSPACE MEDICINE AND BIOLOGY / a continuing bibliography JANUARY 1972

1971 Cumulative Index

Typical Subject Index Listing

ADSORPTION



The Notation of Content (NOC), rather than the title of the document, is used to provide a more exact description of the subject matter. The NASA or AIAA accession number is included in each entry to assist the user in locating the abstract in the abstract section of an individual issue of *Aerospace Medicine and Biology*. The page number indicates the exact page on which the abstract is found. If applicable, a report number is also included as an aid in identifying the document.

A

ABBREVIATIONS

U SYMBOLS

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- Small pressure wave transmission in abdominal venae cavae of dogs in mathematical model development for viscoelastic behavior of large veins p0527 A71-38987
- Head and abdomen shielding effects on radiation sickness evolution in dogs under lethal gamma irradiation p0597 A71-42718
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- Amino acids synthesis by formaldehyde-ammonia heating and hydrolysis, simulating reactants in weakly reducing atmosphere at volcanic temperatures p0077 A71-13014
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Hydrocarbons, amino acids and large molecule organic compounds formation in chondrite meteorites by abiogenetic reactions p0364 A71-28692

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NT PSYCHOSES

NT SCHIZOPHRENIA

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U TEMPERATURE

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U MILITARY AIRCRAFT

BOEING 747 AIRCRAFT

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BONBS

NT CEREBRUM

NT CRANIUM

NT FEMUR

NT INTRACRANIAL CAVITY

NT MASTOIDS

NT PELVIS

NT SCIATIC REGION

NT SKULL

NT TIBIA

NT VERTEBRAE

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Gravity responses and geotropic behavior at ontogenetic stages of higher green plants, noting tendril movement under mechanical stimulation p0562 A71-40008

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Optical effects observation by air traveler during takeoff, including haze or cloud droplet scattering, halos, shock wave shadows, shallow watercolors and twilight wedge
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NT INTRACRANIAL CAVITY

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NT SKULL

Moulting of Calpodes ethlius larvae head and thorax isolated with prothoracic glands dependent on molting hormone injection
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Water cooled head cap for heat stress amelioration in subjects working in warm environments
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Afferent oculomotor pathways to extraocular muscle nuclei, considering discrete unilateral lesion role in head posture disturbance production
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Head and abdomen shielding effects on radiation sickness evolution in dogs under lethal gamma irradiation
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Hind limb antagonistic muscles bioelectric activity dependence on animal rotation direction and head fixation
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Guinea pigs head and eye movements produced by vestibular apparatus stimulation via static pressure changes
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Head spatial position effects on vestibular compensation rates in rabbits
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Instantaneous postural reaction of cattle to brain concussion indicating mechanoreceptor HP discharge impulse pathophysiological mechanism
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Eye-head coordination in monkeys by recordings from neck and eye muscles, noting central neural

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 p0466 A71-35574
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 Zero gravity whole body shower system for space station, describing air drag and vacuum methods for water collection
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 [AIAA PAPER 71-878]
 p0480 A71-36631
 Architectural and environmental design tools for space system habitability, discussing work and living areas, hygienic facilities, etc
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 p0481 A71-36632
 Engineering aspects of zero gravity personal hygiene and waste management systems, noting controlled air flows, surface tension and artificial gravity use
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 p0483 A71-36653
 Polymer odor threshold determination for hygienic considerations in sealed/pressurized chamber construction, comparing static and dynamic methods
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- Oral hygiene requirements for extended manned spacecraft flights
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 [NASA-TT-P-633]
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- Oxygen-nitrogen synergistic interactions in rats in hyperbaric environment, determining lung damage by total water measurement
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- German monograph on high pressure oxygen toxicity and hyperbaric treatment of gas gangrene
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- Respiratory aspects of hyperbaric thermal environments, considering heat exchange by convection
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- Investigating effects of oxygen, nitrogen, and rare gas mixtures at increased pressures on narcosis tendencies of man
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- Complex effect of nitrogen, argon, and helium respiratory mixtures on humans at increased pressures
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- Functional state of central nervous system during development of epilepsy and narcosis in man and animals subjected to increased pressures of oxygen and inert gases
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- Effect of immersion on exchange of oxygen in lung at simulated depth of 5 feet of sea water using hyperbaric chamber
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- Hyperbaric fire safety research, including flame spread rates in helium and nitrogen diving atmospheres and minimum oxygen concentration for combustion in hyperbaric environments
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- Russian book on perception of respiratory medium and gas preference in man and animals covering hypoxic or hypercapnic media, inhalation times, gas mixtures, etc
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- Gradual unilateral hypoxia effects on pulmonary blood flow partition, noting interaction with hypercapnia
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- Hypercapnia in rat, measuring carbon dioxide concentration effect on tidal and minute volumes, respiratory rate, pH depression, blood gases, hematocrit and percent oxyhemoglobin saturation
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- Chronic hypercapnia effects on oxygen affinity and 2,3-diphosphoglycerate in red cell from tests on guinea pigs
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- Hypoxia and hypercapnia induced asphyctic differentiation of cutaneous and visceral sympathetic activity in anesthetized paralyzed rabbits
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- Coronary blood flow at increased arterial carbonic acid partial pressure, noting induced hypercapnia
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- Investigating gas preference reactions in man and animals to hypoxic, hyperoxic, or hypercapnic environments
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- Lipid peroxidation in pulmonary hyperoxia, noting effects of hyperbaric oxygen, ascorbic acid and ferrous iron
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- Central nervous system functions under high oxygen concentrations at normal and elevated pressures
p0212 A71-21938
- Pyridine nucleotide concentration in cerebral hemispheres of rats under hyperoxia
p0246 A71-22534
- Pathological effects of pure oxygen on animal organism at atmospheric pressure, noting perivascular edema, diapedesis hemorrhages, respiratory and metabolic disorders
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- Oxygen tension effect on pulmonary diffusion capacity and postnatal lung growth in rats under hypoxic, normoxic and hyperoxic atmospheres
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- Prolonged hyperoxia effects on lipid synthesis in rat liver and adipose tissue slices
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- German monograph on high pressure oxygen toxicity and hyperbaric treatment of gas gangrene
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- Chronic inability of succinate for protection against paralysis of rats exposed to hyperbaric oxygen toxicity, correlating thermocontrol response
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[JPRS-52325]

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Color matching discrepancies, considering rod blue qualities under photopic conditions, luminance level and trichromatic stimulus unsuitability for large field additive colorimetry

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Brief light flash duration discrimination, discussing luminance and time between flashes

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Luminance and luminous flux discrimination in light and dark reared rats after early visual deprivation

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Visual adaptation mathematical model, studying relation of brightness static transformation into luminance

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Human visual system differential luminance sensitivity tests using simultaneous stimuli in yes-no procedure

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Flashing light stimuli application to clinical instrument design for detection and quantitative assessment of early pathological visual loss based on minimum discernible luminance difference

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Central panel luminance effect on peripheral visual detection time in search tasks

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Increment threshold for monoptic and dichoptic vision, showing spatial and luminance effects

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Object recognition with aided and unaided night vision as function of luminance

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LUMINESCENCE

NT BIOLUMINESCENCE

NT CHEMILUMINESCENCE

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- Soviet papers on higher nervous activity physiology, Part 1, Basic laws and mechanisms of conditioned reflex activity covering inhibition, and bioelectrical effects, with bibliography
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p0360 A71-28461
- Neural network hypothesis for mechanism of backward masking and disinhibition in visual perception
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p0515 A71-38276
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- Neurological altitude decompression sickness
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- Neural stimuli contribution to increasing
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- Clinical aspects of aerospace neurology, considering
central nervous system diseases among flying
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- Soviet book on spinal cord conducting paths
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data and neuron theory

- Neural activities during simultaneous contrast and information processing in visual system p0088 A71-13691
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- Ionizing radiation inhibition of spinal cord neurons ribonucleic acid synthesis and enzyme activity in mice, using autoradiographic method p0245 A71-22533
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- Brain subcortical structure neuronal assemblies impulse activity during sleeping and dreaming in patients treated with implanted electrodes p0322 A71-27487
- Visual cortex neurons impulse activity and postsynaptic potential changes due to light stimuli from quasi-intracellular recordings p0356 A71-28378
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- Activity correlation of adjacent neurons of cat cerebral cortex somatosensory zone, considering distribution of same direction /cophase/ and different direction /counterphase/ of background rhythms p0512 A71-37392
- Signals convergence of various sensory modalities as function of impulse reactions of individual brain neurons in mammals p0515 A71-38197
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- Visual projection, magnification and retina overlap on dorsal lateral geniculate nucleus in cats measured by random scatter in receptive field p0573 A71-40668
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- Visual slant averaging mechanism evidence from binocular disparator tests, considering gradient slant perception theory and neurophysiological averaging mechanism p0101 A71-15170
- Physiological interaction between conscious and unconscious trace processes during time count by pairing acoustic, tactile, proprioceptive and photic stimuli p0141 A71-17599
- Neuroelectric signal analysis using real time nerve spike recognition and separation based on nuclear instrumentation techniques p0211 A71-21839
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- Biosatellite 3 neurophysiological data analysis by digital computer presenting maps of parietal cortex spectra, responsive states transient changes, circadian rhythms and EEG activity p0251 A71-23243
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- Natural sleep and wakefulness stages neurophysiology based on bioelectric activity spectral and correlation analyses p0356 A71-28380
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- Soviet papers on higher nervous activity physiology, Part 1, Basic laws and mechanisms of conditioned reflex activity covering inhibition, and bioelectrical effects, with bibliography p0463 A71-35357
- Brain locking activity structural organization, discussing cerebral processes and control contact mechanisms activating conditioned reflexes p0463 A71-35358
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- Neurophysiological investigation of visual tilt aftereffect, comparing judgment precision at vertical and horizontal to oblique orientation

with/without gravity cue

- Excitability, reactivity, adequacy, creativity and guidance at molecular, cellular, systemic and psychic levels in human biophysical neurodynamics, plotting stimulus magnitude vs response duration p0573 A71-40671
- Eye movement neurophysiology, discussing ocular proprioception, oculorotatory muscle sensory receptor role, extraocular muscle afferent and efferent innervation and central nervous system control effect p0591 A71-42433
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- Development and characteristics of biomedical system for obtaining electroencephalogram and neurophysiologic data during space missions [NASA-CR-115132] p0616 A71-35263

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U NEUROLOGY

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- Neurospora germination and growth in medium of low water activity due to NaCl or nonelectrolyte addition p0313 A71-26146

NEUTRAL PARTICLES

NT FAST NEUTRONS

NT NEUTRONS

NT THERMAL NEUTRONS

NEUTRON ACTIVATION ANALYSIS

- Calcium, potassium and iron loss by astronauts during Apollo space missions, using instrumental neutron activation analysis p0417 A71-33111
- Activation analysis of fecal samples from Apollo 7, 8, 9, and 10 astronauts to determine effects of space flight on mass balance of various elements by human body

[NASA-CR-121861] p0608 N71-34058

NEUTRON FLUX

U FLUX (RATE)

NEUTRON IRRADIATION

Radiation induced visual phosphenes observed by dark adapted human subjects in fast neutron, X ray and positive pion beams at Berkeley comparative to primary cosmic ray effects p0323 A71-27675

Multiple starlike flashes and short streaks reported by subjects exposed to neutrons under 25 mev, discussing interaction with retinal rods by proton recoils p0372 A71-29353

Neutron radiography and dosimetry as clinical diagnostic tool, calculating resolution through tissues for simulated human arm p0465 A71-35449

Chemical agents protective properties on albino mice under gamma-neutron radiation, noting dose and composition effects p0596 A71-42713

Partial body shielding effects on rats radiation sickness survival rates under gamma-neutron radiation, comparing head and belly shielding effectiveness at different intensities p0597 A71-42716

Rat organs pathomorphological changes under gamma neutron irradiation with head and abdomen shielding, noting intestines early damage p0598 A71-42722

Effects of 15,000-rads pulsed gamma-neutron radiation on behavioral performance of monkeys [AD-712054] p0050 N71-11088

Radiobiological data from thin tissue samples exposed to neutron irradiation [CEA-COFR-1554] p0164 N71-15494

In vitro studies using boron-labeled antibodies and elemental boron as neutron target in therapy for tumors and cancer [NASA-CR-122925] p0645 N71-36465

NEUTRONS

NT FAST NEUTRONS

NT THERMAL NEUTRONS

Human tissues neutron induced physical doses calculation p0370 A71-29260

Neutron dosimetry, biophysics and biological effectiveness, genetic effects, repair and recovery, and modifying factors of neutrons in radiobiology [CONF-691106] p0282 N71-20010

Absorbed dose and dose equivalent from neutrons in energy range 60 to 3000 MeV and protons in energy range 400 to 3000 MeV [NASA-CR-117314] p0288 N71-20489

Neutron dose distributions at bone tissue interfaces in human body [ORNL-TM-3329] p0609 N71-34066

NICOTINE

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NIGHT VISION

Vision loss from windshield tinting in night visual flying accident p0207 A71-20824

Night vision and dark adaptation of eye, noting sunlight effects on visual acuity p0357 A71-28392

Air transport accident research in night approach simulators, noting visual information null in descent path and delay in relative motion supplement data p0407 A71-31602

Optimization of human performance with night vision devices and related sensors [AD-713463] p0159 N71-14576

Optimized search techniques with passive night vision devices [AD-722236] p0440 N71-28359

Effects of search area size on target acquisition with passive night vision devices [AD-722235] p0441 N71-28360

Object recognition with aided and unaided night vision as function of luminance [IZP-1971-7] p0609 N71-34065

Tests of color defective vision in predicting performance under day and night conditions [FAA-AM-71-32] p0648 N71-36489

NIKE ROCKET VEHICLES

NT NIKE-TOMAHAWK ROCKET VEHICLE

NIKE-TOMAHAWK ROCKET VEHICLE

Life support systems test under weightlessness environment in Nike Tomahawk sounding rockets launched from Wallops Island p0425 A71-33816

NITRATES

Chlorella biomass chemical composition stability during prolonged cultivation with nitrates recycling media p0603 A71-42818

NITRITES

Hemoglobin-sodium nitrite reaction in absence of oxygen, discussing methemoglobin formation by autocatalysis p0087 A71-13486

NITROGEN

NT LIQUID NITROGEN

PH conditional ammonia assimilation deficient mutants isolation and growth properties, studying nitrogen transport in Hydrogenomonas eutropha p0155 A71-18672

Hydrogenomonas eutropha mutants deficient amination due to ammonia-nitrogen permeation defect p0155 A71-18673

Alveolar nitrogen and carbon dioxide tensions changes during compressed air narcosis in constant oxygen partial pressure p0206 A71-20818

Helium and nitrogen breathing effects upon intraocular pressure during and after near vacuum exposure in anesthetized and unanesthetized dogs p0253 A71-23359

Cell free extracts with high nitrogenase activity from blue green alga Anabaena cylindrica by sonic oscillation and French press treatment p0256 A71-23475

Ar, N and Ne partial pressure tolerance in dogs, plotting saturation curves p0354 A71-28038

Substrate and light dependent fixation of molecular nitrogen in Rhodospirillum rubrum tested for nitrogenase activity by manometric measurement p0416 A71-33057

Nitrogen and oxygen exit rate from subcutaneous gas pockets in rats during tissue blood flow elevation due to cobalt chloride injection p0449 A71-34174

Pulmonary nitrogen washout and carbon monoxide uptake, developing dynamic mathematical models for volume and distensibility distributions in airways and alveoli p0531 A71-39441

Human sleep patterns during prolonged exposure to hyperbaric nitrogen saturated atmosphere [AD-711671] p0045 N71-10723

Measuring external symptoms of nitrogen narcosis in human subjects breathing air at increased pressures p0054 N71-11112

NITROGEN COMPOUNDS

NT AMIDES

NT AMMONIA

NT ATROPINE

NT IMIDES

NT NICOTINE

NT NITRATES

NT NITRITES

NT NITROGEN FLUORIDES

NT NITROGEN OXIDES

NT NITROUS OXIDES

NT PILOCARPINE

NT RESERPINE

NT THIURONIUM

NT THYMINE

NT TRYPTOPHAN

NT URACIL

NT UREAS

NT URIC ACID

Oxygen consumption by nitrogen starved nonsynchronous Chlorella culture during different assimilation of nitrogen salts in darkness and light p0422 A71-33461

NITROGEN FLUORIDES

Apollo materials toxicity screening tests and effects of ethylene glycol, monomethylhydrazine, NF₃, OF₂, and ClF₃
[NASA-CR-111394] p0050 N71-11087

NITROGEN OXIDES

NT NITROUS OXIDES

Annotated bibliography of technical literature related to nitrogen oxides and air pollution control
[PB-194429] p0123 N71-14472
Measurement of ozone and some effects of ozone and nitrogen oxides on motor activity of rats
p0223 N71-17666

NITROUS OXIDES

Coronary blood flow measurements during strenuous upright exercise, using nitrous oxide method
p0253 A71-23362

NOBLE GASES

U RARE GASES

NOCTILUCENCE

U LUMINESCENCE

NOISE (SOUND)

NT AIRCRAFT NOISE

NT ENGINE NOISE

NT JET AIRCRAFT NOISE

NT SONIC BOOMS

Physiological effects of noise - Conference, Boston, December 1969
p0080 A71-13151

Sound effects on endocrine function and electrolyte excretion in animals and man, considering adenohipophyseal, neurohipophyseal and thyroid functions, diuresis and natriuresis
p0081 A71-13153

Endocrine and metabolic effects of noise in normal, hypertensive and psychotic subjects, considering increased corticoadrenal and adrenergic activity
p0081 A71-13154

Quantitative relation between temporary threshold shift and peripheral circulatory effects of sound, using finger pulse amplitude strain gage
p0082 A71-13156

Extraauditory effects of sound on senses, concerning visual functions, nystagmus, galvanic skin response and audioanalgesic use
p0082 A71-13158

Audioconditioned convulsive response /ACCR/ characterization, investigating age, auditory conditioning and environmental noise effects on sound-induced seizures in mice
p0082 A71-13162

Impulsive sound signals perceived noisiness in anechoic chamber, investigating duration, intersignal interval, repetition and frequency effects
p0127 A71-16277

Aerospace environments noise effects on human physiology and speech communication
p0202 A71-20710

Psychometric analysis of annoyance by wideband noise with superimposed narrow band component, using multiple regression and scaling method
p0515 A71-38061

Noise exposure effects on human physiological and psychological functions and performance
p0525 A71-38959

Book on noise effects on man covering audiometry, aural reflex, hearing damage risk, physiological responses, motor performance and speech communication
p0534 A71-39874

Comparative effects of auditory and extra auditory acoustic stimulation on human equilibrium and motor performance
[AD-711046] p0040 N71-10177

Combined effects of noise and vibration on mental performance as function of time of day
[AD-711636] p0047 N71-10891

Physiological effects of noise sensitivity
[EQ-71-4] p0541 N71-32572

NOISE ATTENUATION

U NOISE REDUCTION

NOISE ELIMINATION

U NOISE REDUCTION

NOISE HAZARDS

U HAZARDS

U NOISE (SOUND)

NOISE INJURIES

Cochlear sensory epithelium and Corti organ degeneration after noise exposure in guinea pigs and cats, using scanning electron microscopy
p0032 A71-12364

Plethysmographical study of noise effects on hearing and peripheral vasoconstriction in man and animals
p0081 A71-13155

Book on eye injuries covering mechanical traumata, neuro-ophthalmology, chemical, thermal, radiation, electrical and sonic injuries, etc
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PARTICLE SIZE DISTRIBUTION
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 Spaceborne optical sensors cleanliness requirements, considering particle size distribution, shape, population densities, chemical composition and origin [AIAA PAPER 71-471] p0317 A71-26758
 Efficiency as function of particle size and velocity for commercial filter media [LA-4650] p0655 N71-37663
PARTICLE TRACKS
U PARTICLE TRAJECTORIES
PARTICLE TRAJECTORIES
 Heavy cosmic particle dosage measurement by chemical etching of particle tracks on Apollo astronauts plastic helmets p0096 A71-14822
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 NT AEROSOLS
 NT ALPHA PARTICLES
 NT BETA PARTICLES
 NT CATIONS
 NT ELECTRONS
 NT FAST NEUTRONS
 NT FERMIONS
 NT METAL IONS
 NT NEUTRONS
 NT PHOTOELECTRONS
 NT POSITRONS
 NT PROTONS
 NT SOOT

NT THERMAL NEUTRONS

PARTICULATE FILTERS

U FLUID FILTERS

PASSBANDS

U BANDWIDTH

PASSENGER AIRCRAFT

NT BOEING 747 AIRCRAFT

PATCHING

U MAINTENANCE

PATHOGENESIS

Flight concomitant pathogenetic effects on urinary tract conditions, noting kidney descent, inflammatory episodes and calculosis

p0272 A71-24977

Extrinsic factors in pathogenesis of congenital heart diseases, considering morphogenetic processes in heart and great vessels development

p0351 A71-27811

PATHOLOGICAL EFFECTS

Motor and sensory nerve conduction impairment in upper extremities in vibration disease

p0005 A71-10394

Continuous and intermittent effect of carbon tetrachloride breathing on pathomorphological and histochemical structure of liver in test animals

p0012 A71-11129

Statistical analysis of airline flight crew psychological unfitness

p0024 A71-11598

Physiopathological and otolaryngological repercussions of supersonic flight on SST passengers

p0080 A71-13098

Pancreas pathomorphology under acute hyperthermia in animals, showing hemodynamic changes of vessel dilatation and intravascular leukocytosis

p0214 A71-21968

Soyuz 9 spacecraft astronauts otorhinolaryngological organs response to 18-day orbital flight, observing pathological changes from clinical post flight examination

p0241 A71-22207

Pathological effects of pure oxygen on animal organism at atmospheric pressure, noting perivascular edema, diapedesis hemorrhages, respiratory and metabolic disorders

p0247 A71-22641

Acute hydrazine hydrate poisoning morphological effects on internal organs and blood in guinea pigs, noting pronounced changes in liver and kidneys

p0248 A71-22921

Physical and physiopathological effects of high altitude supersonic flight in TP-104G aircraft told by flight surgeon

p0272 A71-24980

Pathophysiological aspects of microwave irradiation, considering thermal response of human and animal organisms to electromagnetic radiation exposure

p0274 A71-25079

Stereophotogrammetric methods and instruments for studying eye anatomical-optical apparatus and pathological changes

p0354 A71-28012

Myocardial ischemic lesions age, discussing validity of histopathological criteria and margin of error

p0413 A71-32542

Acute fatal nontraumatic collapse during physical work and sports due to pathological processes

p0472 A71-36214

Stop test method to study acceleration in movement control processes in man, considering elbow joint movements in normal and pathological tremors in Parkinson disease afflicted subjects

p0514 A71-37569

Flashing light stimuli application to clinical instrument design for detection and quantitative assessment of early pathological visual loss based on minimum discernible luminance difference

p0579 A71-41482

Pathomorphological and histochemical changes in rat lungs, liver, heart, diaphragm and adrenal glands from acceleration and cysteamine caused tissue oxygen deficiency

p0595 A71-42703

High energy proton irradiation of rats with partial shielding of abdominal region, observing pathomorphological changes in myocardium, nervous system and radiosensitive organs

p0598 A71-42721

Hyperoxia pathological effects on albino rats subcutaneous connective tissue, noting oxidizing enzyme activity depression and cellular metabolism suppression

p0601 A71-42802

Types of biological indicators used in monitoring sterilization processes

[TR-34] p0058 N71-11192

Legal, preventive, and clinical aspects of aerospace medicine

[AGARD-CP-61-70] p0064 N71-11801

Histopathological and biochemical effects of decelerations on mice physiology

p0065 N71-11807

Difficulties of circumscribing danger zones for other aerial radar personnel

p0065 N71-11810

Pathological findings in sinus X rays and nasal examinations on humans after low pressure chamber exposures

p0066 N71-11812

Resume of publications and recommendations from symposium on intestinal flora ecology in changing environments

[NASA-CR-114889] p0279 N71-19783

PATHOLOGY

NT HUMAN PATHOLOGY

German book on clinical pathophysiology of respiration covering respiratory physiology, pulmonary gas exchange, respiratory control, hypoxia, hyperoxia, pressure breathing, etc

p0250 A71-23069

Primary cardiomyopathy, discussing obstructive and nonobstructive cases, myocardial inflammation, chronic alcoholism and age relationships

p0459 A71-35120

Soviet book on experimental research on human higher nervous activity from growth aspect covering normal and pathological states, cerebral cortex interaction with central nervous system

p0578 A71-41374

Composite tissue blocks method for comparative pathomorphological investigation of radiation pathology

p0599 A71-42734

Pathological evaluation of respiratory system in subjects using autorespirator during underwater activity

[NASA-TT-F-13424] p0125 N71-14481

Development of clinical pathology procedures for detection of diseases in germfree mice and detection of titanium in lymphoid structures of hamsters, mice, and rats

[NASA-CR-118671] p0401 N71-26399

Histopathology and clinical study of chronic X ray dermatitis and cancer of fingers

[NASA-TT-F-13664] p0448 N71-29200

PATIENTS

Aerial transportation of patients, potential hazards due to motion sickness, decreased atmospheric pressure and oxygen tension, fatigue, inactivity and dehydration

p0204 A71-20726

Oxygen supply to air transported patients by chemical compounds, suggesting use of permanganates and chlorates

p0582 A71-41571

Sick and injured transportation aboard regular airliners, considering pathological and psychological contraindications

p0582 A71-41572

Intensive care alarm indicator system with audible signal and worn by staff responsible for care

[NASA-TM-X-65421] p0165 N71-15832

Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher

[NASA-CASE-XMF-06589] p0343 N71-23159

Patient monitoring system design and equipment specifications with physiological response display device and warning system

[NASA-CR-118645] p0396 N71-25942

PATROLS

Long term effects on visual processes during submarine patrol

[AD-721683] p0494 N71-29444

PATTERN RECOGNITION

NT CHARACTER RECOGNITION

Neurophysiological aspects of human optical and acoustical perception, discussing pattern recognition and cognizance role in optical image evaluation

p0090 A71-14331

Visual pattern perception learning, recognition upon subsequent encountering and unfavorable conditions

p0139 A71-17243

Saccadic eye movements scanpaths during pattern perception under poor visibility

p0146 A71-17962

ECG beat-to-beat variation reduction using digital computer wave recognition

p0192 A71-19839

Two dimensional adaptive pattern-recognizing model of human operator in visual-manual compensatory tracking task

p0199 A71-20406

Theory of form based on geometric probabilities, leading to two dimensional retinal type computer programmed to exhibit elementary form perception aspects

p0260 A71-23997

Pattern recognition systems, considering receptor, preprocessing and decision making stages

p0264 A71-24225

Mathematical neuronal model for functional learning system networks, representing brain pattern recognition, learning and size invariance mechanisms

p0265 A71-24233

Proximal changes and stimulus patterns associated with rotation direction evoking visually perceived oscillation

p0269 A71-24606

Book on color and pattern vision physiology covering retinal induction, electrical excitation of eye, optical illusion, figural aftereffect, movement sensation, etc

p0318 A71-26769

Spatio-temporal patterns in visual contrast sensitivity, noting exaggerated eye movements effects

p0360 A71-28462

Behavioral effects of electrically induced EEG abnormalities in inferotemporal and occipital cortex in monkeys on visual pattern discrimination and successive spatial reversals

p0365 A71-28806

Visual evoked cortical response in man related to rate, spatial frequency and wavelength of alternating barred pattern with background illumination

p0367 A71-28888

Intramodal and crossmodal sensory transfer of visual and auditory temporal patterns in normal young adults

p0372 A71-29326

Two dimensional adaptive model of human operator control in visual-manual compensatory tracking task using pattern recognition

p0458 A71-35046

Recognition response time experiments for word number effects in target set, discussing familiarity judgment and response decision

p0462 A71-35250

Stimulus familiarization effects on visual selection patterns during exposure to banal and incongruous paired stimuli

p0462 A71-35251

Human visual depth impression by gradient patterns, discussing experimental verification for hypothesis concerning perceptual economy principle

p0462 A71-35252

Psychological correlates of pattern identification tasks and invariance of pattern recognition under rotation, using Kabrisky model of human visual system

p0467 A71-35792

Human visual system biological model for pattern recognition based on spatial filtering covering Fourier transform modification for application to discrete case

p0467 A71-35793

Versional eye movement control system models, considering dual mode control, intermittency, plant dynamics and pattern recognition

Scanpaths in saccadic eye movements during pattern vision and recognition

p0592 A71-42444

Computer program for pattern recognition of

p0628 A71-43973

prismatic solids

[AD-712069]

p0056 N71-11175

Computerized simulation of human visual perception based on spatial filtering and allowing for scale changes in input stimuli

[AD-712686]

p0124 N71-14475

Parameters of human pattern perception

[AD-713185]

p0163 N71-14742

Edges and curve detection in textured regions related to visual scene analysis

[AD-713159]

p0163 N71-14832

Computer synthesis for classifying natural shapes and patterns including leaves

[AD-713163]

p0163 N71-14833

Annotated bibliography of reports on parameters of human pattern perception for Sept. 1967 through Aug. 1970

[AD-714672]

p0169 N71-16251

Machine learning of structural descriptions from examples

[AD-713988]

p0169 N71-16285

Processing of visual imagery by model derived for recognition of visual patterns

[AD-717157]

p0289 N71-20603

Matching frequency of observer eye to frequency of visual pattern for optimum recognition

[RM-498]

p0300 N71-21485

Learning machines for statistical classifications of spectral patterns and graphical target recognition

[AD-717219]

p0302 N71-21649

Cutaneous perception test involving human ability to reproduce binary patterns formed by electrical stimulation of finger tips

p0327 N71-21899

Bionics of living and life-like systems with application to man machine technology

[AGARD-CP-44]

p0339 N71-23053

Structures of biological information processing and pattern recognition in living systems

p0340 N71-23056

Bionic models for pattern recognition in human and artificial brains

p0340 N71-23057

Acoustic pattern recognition neurophysiological transformation into synthetic signals by deaf persons

p0341 N71-23064

Bionic neural model integration into functional learning networks of brain

p0341 N71-23068

Chemical signal interpretation by olfactory information systems of living organisms

p0341 N71-23070

Development, characteristics, and performance of learning machines, artificial intelligence, and pattern recognition techniques

[AD-718381]

p0344 N71-23247

Evaluation of quality of signs used in construction of pattern recognition algorithms

[AD-717887]

p0344 N71-23294

Visual effects from moving achromatizing lens in front of eye while viewing multicolored pattern

[AD-718027]

p0346 N71-23394

Statistical and pictorial pattern recognition

[AD-718380]

p0346 N71-23400

Analysis of variance of heart rate measurements extracting sleep stage information and pattern recognition

[AD-718125]

p0346 N71-23477

Multiclass pattern recognition in unstructured situations using a set of discriminant functions which partition feature space into regions

[AD-720812]

p0395 N71-25841

Summary and coordination of several digital computer algorithms for information compression, structure analysis, and decision making

[AD-720811]

p0395 N71-25842

Bayesian decision making and learning in parametric pattern recognition problem for continuous-time Markov process

[AD-720810]

p0395 N71-25847

Bayesian algorithms for Markov chain pattern recognition problems

[AD-720837]

p0395 N71-25850

PATTERN REGISTRATION

Computer modeling of hippocampus and studies involving pattern recognition and information compression
[AD-720816] p0396 N71-25864

Achromatic pattern recognition model for processing chromatic objects
[AD-722853] p0498 N71-30219

Computerized simulation of cerebral neuron pattern recognition model
[AD-722651] p0501 N71-30811

Dynamic psychological and ergonomic aspects of mental imagery
[IZP-1970-21] p0503 N71-31040

Parameters of human pattern perception effect of statistical properties of pattern components on feature selection
[AD-722794] p0505 N71-31336

Problems of automatic auditory pattern recognition and solutions
p0538 N71-32010

Analog to digital converters for description and recognition of voice signals
p0538 N71-32011

Sequential, distribution-free pattern classification procedures tested on Gaussian and EEG patterns
[NASA-CR-121750] p0610 N71-34074

Applying principles of pattern recognition technology to analysis of EEG
[AD-726473] p0646 N71-36476

PATTERN REGISTRATION

Spatial and temporal patterned light flashes effects on dark adapted subjects, discussing cortical response changes in contrast depth
p0270 A71-24680

PCM (MODULATION)

U PULSE CODE MODULATION

PDP COMPUTERS

NT PDP 8 COMPUTER

PDP 8 COMPUTER

Computerized simulation of character recognition layer nets using PDP 8 computer
[PB-192138] p0116 N71-12349

PEDALS

Foot operation of pedals, investigating speed and accuracy of lower leg motion in different directions
p0491 A71-36972

PEDOLOGY

U SOIL SCIENCE

PELVIS

Visual contrast sensitivity and fundus oculi pattern changes due to accelerations in pelvis- head axis
p0320 A71-27165

PENICILLIN

Cysteamine and penicillamine effects on copper ion charge transfer, using electron spin resonance and optical absorption measurements
p0177 A71-18935

PENTOBARBITAL SODIUM

NT RESERPINE

Succinic dehydrogenase activity inhibition and pentobarbital sodium protection of lung tissue in mouse breathing oxygen at atmospheric pressure
p0312 A71-26125

PEPSIN

Pilot nervous-emotional state during flight conditions determined from uropepsin excreted in urine
p0138 A71-17028

Immunochemical investigation of dogfish pepsinogens A, C and D, determining characteristics in terms of immunodiffusion, immuno-electrophoresis, complement fixation and enzymic activity inhibition
p0374 A71-29480

Dog uropepsin excretion dynamics under extremal flight conditions, detailing hypoxia, high temperature radical accelerations and impact G forces effects
p0406 A71-31322

PEPTIDES

Carbohydrate-peptide bond and residue chain structure of group blood substances, using alkali decomposition of monosaccharides
p0011 A71-11091

UV radiation effect on amino acids and peptides in different gas atmospheres in presence of salts and metal oxides
p0605 A71-42829

SUBJECT INDEX

Effects of space flight on bone metabolism investigated by analyzing peptide hormones in urine
p0644 N71-36462

PERCEPTION

NT AUDITORY PERCEPTION

NT AUTOKINESIS

NT BINAURAL HEARING

NT CONSCIOUSNESS

NT CRITICAL FLICKER FUSION

NT OLFACTORY PERCEPTION

NT PAIN

NT PAIN SENSITIVITY

NT PROPRIOCEPTION

NT SENSORY PERCEPTION

NT SOUND LOCALIZATION

NT SPACE PERCEPTION

NT TACTILE DISCRIMINATION

NT TASTE

NT VERTICAL PERCEPTION

NT VIBRATION PERCEPTION

NT VISUAL DISCRIMINATION

NT VISUAL PERCEPTION

Gestalt psychology perceptual organization, analyzing contextual background and residual stimuli, interaction concepts, configurational principles and organismic factors
p0191 A71-19696

Biological memory and perception processes
electronic simulation by keyboard structure reenacting word reception, storage and delivery
p0194 A71-20118

Annotated bibliography of reports on parameters of human pattern perception for Sept. 1967 through Aug. 1970
[AD-714672] p0169 N71-16251

Relationship of interaction of impulsiveness and anxiety to perceptual-motor performance in human beings
p0286 N71-20361

PERCEPTORS

U SELF ORGANIZING SYSTEMS

PERFORMANCE

Performance of protective clothing in large J4-4 fuel fires
[AD-724648] p0543 N71-32925

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U PERFORMANCE

PERFORMANCE DECUREMENT

U PERFORMANCE

PERFORMANCE PREDICTION

NT PREDICTION ANALYSIS TECHNIQUES

Night carrier landing final approach glide slope altitude, lateral and sink rate pilot errors prediction, using linear regression model
p0142 A71-17602

Response strategies in two-choice reaction task with continuous cost for time, confirming fast- guess model prediction
p0318 A71-27008

Quantitative performance evaluation of man machine systems in stochastic environments, deriving simulation algorithm
p0370 A71-29286

Operator mental performance reliability prediction from heart beat rate and electromyogram
p0415 A71-32826

Human performance reliability data system using taxonomic structure for classifying behavioral studies and predicting man-machine performance
p0421 A71-33318

German monograph on extrapolation procedure based on Taylor series expansion and on algorithm for identification and prediction of eye pursuit movements
p0455 A71-34790

Color defective vision and aviation color signal light flashes recognition, indicating Farnsworth Lantern performance prediction test superiority
p0580 A71-41490

Electric circuit component failure prediction and probability distribution in troubleshooting search
p0621 A71-42900

Stress response prediction by correlation technique and control of stress perception by human nervous system
[AD-716967] p0299 N71-21150

Critical analysis and predicted developments in bionics science

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 p0446 N71-28543
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 performance and probability estimation of training
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 Prediction of human reaction time to light flashes
 [AD-724001] p0543 N71-33087
 Mathematical model representing human performance
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 [AD-727766] p0650 N71-36503
PERFORMANCE TESTS
 Human time estimation tests, describing methods of
 reproduction, verbal estimation and production in
 randomized blocks of trials
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 Gundefender earplug evaluation tests, using
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 Life support water management subsystem 4-man 90-day
 test in space station simulator with closed water
 and oxygen loops and no resupply
 [ASME PAPER 71-AV-6] p0474 A71-36373
 Solid electrolyte oxygen generator electrolysis test
 module with improved ceramic to ceramic and metal
 seals, electrode and grid design, discussing
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 [ASME PAPER 71-AV-8] p0475 A71-36375
 Design and performance testing of arterial wick
 circular heat pipes for OAO-C spacecraft
 [ASME PAPER 71-AV-26] p0478 A71-36393
 Closed-loop solid electrolyte oxygen regeneration
 life support system, discussing 180-day life test
 [ASME PAPER 71-AV-32] p0479 A71-36399
 Space station regenerative life support system 90-
 day manned test in simulator, discussing
 objectives, facilities and procedures
 [ASME PAPER 71-AV-38] p0480 A71-36405
 Manned earth-orbital missions performance assessment
 experiments, studying effects of artificial and
 zero gravity spacecraft environments on humans
 [AIAA PAPER 71-891] p0482 A71-36641
 Influence of vestibular stimulation and display
 luminance on compensatory tracking task
 performance
 [NASA-CR-111111] p0044 N71-10499
 Closed-cycle respirator development program
 [AD-712560] p0117 N71-12352
 Effects of input power spectra on human operator
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 [AD-714130] p0173 N71-16624
 Validation criteria and performance evaluation of
 human movement computerized simulations used in
 cockpit geometry evaluation program for flight
 crew physical compatibility with crew stations
 [AD-716399] p0280 N71-19821
 Universal aircraft flight simulator/trainer system
 definition
 [AD-717179] p0289 N71-20604
 Management and results of long term manned test on
 regenerative life support system in space
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 p0292 N71-20953
 Design and performance of thermal air conditioning
 equipment during long term manned space
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 p0292 N71-20958
 Performance of carbon dioxide concentrator in long
 duration spacecraft cabin atmosphere simulation
 p0292 N71-20959
 Assessment of biodynamic aspects and protection
 provided by lap belts, lap belt plus air bag, and
 air bag only restraint systems using baboon
 subjects
 p0337 N71-22452
 Zero gravity clothes washer utilizing principles of
 fluidics to provide washing action and reduction
 in number of components scale model
 [NASA-CR-114983] p0388 N71-24455
 Spatial processing characteristics in perception of
 brief visual arrays
 [AD-719797] p0394 N71-25623

Zero-gravity absorption refrigeration system design
 and performance testing for space station
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 [NASA-CR-103114] p0401 N71-26390
 Manned 90-day performance test of regenerative life
 support systems in space station simulator
 including crew biomedical tests
 [NASA-CR-111881] p0447 N71-28877
 Polyvinyl chloride membrane vapor diffusion urine
 water reclamation system design and performance
 tests for flight systems
 [NASA-CR-111932] p0549 N71-33400
PERFUSION
U DIFFUSION
PERIODIC OSCILLATIONS
U OSCILLATIONS
PERIODIC VARIATIONS
NT ALTERNATIONS
NT ANNUAL VARIATIONS
NT DIURNAL VARIATIONS
 Mammal species body temperature during 24 hr
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 p0023 A71-11570
 Variability in timing of simple motor responses
 [AD-721213] p0431 N71-27198
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U PERIODIC VARIATIONS
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U RHYTHM (BIOLOGY)
PERIPHERAL CIRCULATION
 Cutaneous blood flow in anesthetized pig forelimb
 modified by brain temperature changes
 p0026 A71-11671
 Quantitative relation between temporary threshold
 shift and peripheral circulatory effects of sound,
 using finger pulse amplitude strain gage
 p0082 A71-13156
 Asphyxia induced changes in regional cutaneous and
 visceral sympathetic activity in anesthetized
 rabbits, noting relationship with ear blood flow
 increase
 p0148 A71-18324
 Venomotor responses of forearm and hand veins to
 rapid changes in skin temperature in exercising
 man
 p0152 A71-18382
 Venomotor responses of forearm veins to local and
 remote thermal stimuli to skin in exercising man
 p0152 A71-18383
 Amino-ethyl-S-2-isothiuronium radio protective dose
 effects on enzyme activity, cardiovascular
 changes, blood transaminases concentration, bone
 marrow and peripheral circulation
 p0185 A71-18986
 Cystamine effects on lymphocytes chromosomal
 aberrations in human peripheral blood during local
 fractionated gamma irradiation
 p0211 A71-21797
 Vascular effector structure in orientation reaction
 of peripheral vessels to sound, using
 plethysmogram and rheoencephalogram indications
 p0214 A71-21962
 Cardiac output in relation to peripheral resistance
 in borderline hypertension
 p0246 A71-22591
 Closed steady streamline creeping flow in
 cylindrical cavity applied to bubble or plug train
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 p0270 A71-24614
 Age, obliterating arteriopathy and peripheral
 arterial sclerosis effects on rheographic wave
 propagation speed to lower limbs
 p0272 A71-24976
 Dogs peripheral blood reaction to complex action of
 transverse accelerations and gamma irradiation
 p0599 A71-42727
 Vibration influence on peripheral blood reaction to
 gamma radiation in dogs, using clinico-
 hematological indices
 p0599 A71-42728
 Radiation effects on rats peripheral blood state in
 low pressure environment with sea level value
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 p0599 A71-42732
 Arterial blood pressure spontaneous fluctuations due
 to cutaneous circulation adjustments by
 thermoregulatory system
 p0623 A71-43142

PERIPHERAL NERVOUS SYSTEM

Adaptation mechanism of human movement control as motor neuron reaction to external stimuli, considering peripheral arch, cerebrospinal canal and feedback

p0074 A71-12986

Hyperthermia effects on conduction velocity of nerve fibers and peripheral motor neuron-muscular activity in man

p0248 A71-22924

Organic thermoregulator control signal generation as function of body peripheral to central temperature ratios, using skin temperature rise measurements

p0268 A71-24485

Cochlear/vestibular apparatus, ganglion cells, spinal roots and nerve trunk damage from ionizing radiation based on neural elements transirradiation in neoplasms

p0273 A71-25039

PERITONEUM

Hypertensive effects and tissue metal levels due to Cd, Hg and Zn intraperitoneal injection in rats

p0256 A71-23543

Peritoneal macrophagocytic ingestive capacity decrease in mice under hypobaric hypoxia, indicating infection susceptibility in altitude environments

p0586 A71-41832

PERMANGANATES

Oxygen supply to air transported patients by chemical compounds, suggesting use of permanganates and chlorates

p0582 A71-41571

PERMEABILITY

Hyperemic skeletal muscle capillaries restricted diffusion, obtaining permeability data for chromium 51 labeled EDTA and inulin in exercising human forearm

p0201 A71-20677

Tissue resistance changes in immobilized rats

p0439 A71-28265

PEROXIDES

NT HYDROGEN PEROXIDE

NT INORGANIC PEROXIDES

Peroxidase and catalase activity and hyperoxia effects on mice organs, leucocytes, and erythrocytes in pure oxygen under pressure

[ANL-TRANS-877] p0432 N71-27290

PERSONALITY

Soviet book on psychology and outer space covering astronauts experiences and emotions during training and flights, daily routine, equipment, food, habits and personal characteristics

p0574 A71-40876

PERSONALITY TESTS

Psychometric measurements approaches for pilot training questionnaires, considering personality traits standard model

p0258 A71-23929

Human vigilance performance and personality traits characterization by EEG alpha frequencies, correlating rest and task period recordings

p0409 A71-31954

Three phase code transformation task reliability and correlation, representing general/factor analytic intellectual abilities and personality characteristics

p0527 A71-39073

Performance ratings and personality test factors of air traffic controllers

[AM-70-14] p0116 N71-12350

PERSONNEL

NT AIRCRAFT PILOTS

NT ASTRONAUTS

NT COSMONAUTS

NT CREWS

NT FLIGHT CREWS

NT FLIGHT SURGEONS

NT FLYING PERSONNEL

NT GROUND CREWS

NT MEDICAL PERSONNEL

NT NAVIGATORS

NT OPERATORS (PERSONNEL)

NT ORBITAL WORKERS

NT PHYSICIANS

NT PILOTS (PERSONNEL)

NT SCIENTISTS

NT SPACECREWS

Statistical analysis on accidental injuries sustained by military airforce personnel

p0065 N71-11809

Difficulties of circumscribing danger zones for other aerial radar personnel

p0065 N71-11810

Accidents of nuclear workers caused by human factors

[CEA-CONF-1514] p0227 N71-18288

Survey of personnel monitoring dosimeters for estimating external exposure doses

[JAERI-MEMO-4292] p0617 N71-35274

PERSONNEL DEVELOPMENT

Personnel training in airline operations technology at Friedrich List Transportation Institute for aircraft pilots, flight safety engineers and systems engineers

p0370 A71-29143

Psychological training for personality development of aircraft stewardesses for conscious passenger relation establishment

p0515 A71-38224

Methods and techniques for training personnel for operation and test of aviation equipment, subsystems, and related accessories

[AD-723032] p0499 N71-30254

PERSONNEL MANAGEMENT

Computerized techniques incorporating adaptive pilot training concepts and means of predicting student training success

[AD-716473] p0279 N71-19798

Multiple correlation of university and flight training biographical information as management tool in personnel selection for pilot training

[AD-717941] p0536 N71-31620

Psychotechnical analysis of creativeness in research personnel based on personal interviews for personnel management applications

[NLL-TRANS-746-801-(9022.401)] p0654 N71-37656

PERSONNEL PROPULSION SYSTEMS

U SELF MANEUVERING UNITS

PERSONNEL SELECTION

NT PILOT SELECTION

Personnel selection for emotionally and physically taxing situations by studying physiological responses to anticipated stressors and stress recovery

p0143 A71-17607

Psychological aspects influencing aircrewman capacity to perform useful work, detailing selection, training, operational environment and global factors

p0204 A71-20724

Astronaut selection and training, considering acceleration, hypoxia, weightlessness and temperature variation tolerance

p0318 A71-26951

Psychological tests for aerial photograph interpreter selection and performance prediction

p0415 A71-32829

Soviet book on space biology and medicine covering cosmonaut selection and training, flight safety, normal life support factors, interplanetary space sojourn, etc

p0452 A71-34475

Tektite II program of underwater research as future manned space flight operations model, discussing mission structure, crew selection and communications

[AIAA PAPER 71-828] p0455 A71-34718

Test equipment for evaluating human higher nervous activity, noting use for radiotelegraphist selection

p0515 A71-37775

Crew selection procedures for long duration manned space station simulation test

p0295 N71-20977

Psychological criteria in crew selection for long duration space station simulation test

p0295 N71-20978

Psychological test of human reaction to simulated stress

[FAA-AM-71-14] p0496 N71-29639

Multiple correlation of university and flight training biographical information as management tool in personnel selection for pilot training

[AD-717941] p0536 N71-31620

Pilot training performance data correlation in performance and probability estimation of training completion for advanced training personnel

- selection
[AD-718848] p0536 N71-31621
- Problem solving task for mental ability assessment
in selection of aviation personnel
[FAA-AM-71-28] p0540 N71-32434
- Development of multivariate system for evaluating
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VITAMINS

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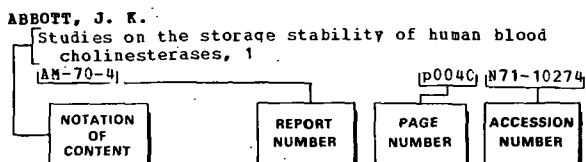
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